We are beginning to use WARP to study e-cloud in LHC

1 LHC FODO cell

F B B B D B B B

electrons

beam (scaled 10x)

(particles colored according to radius)

T=2μs
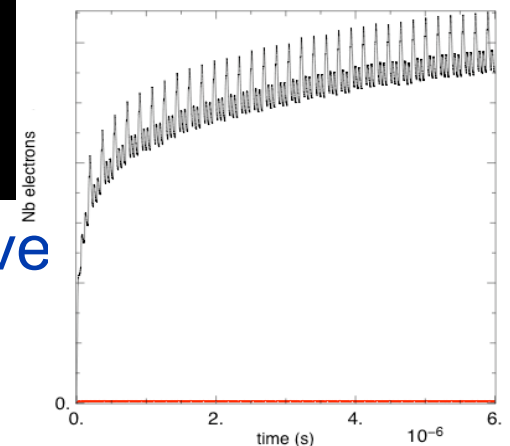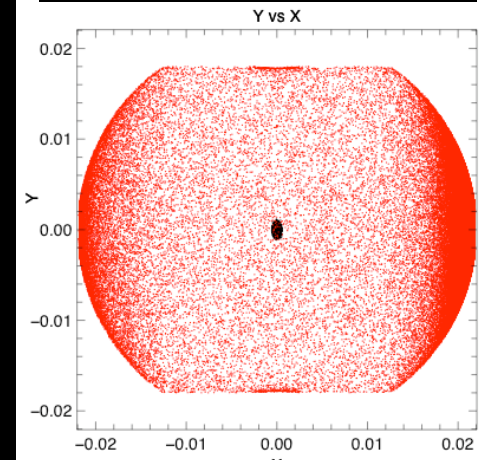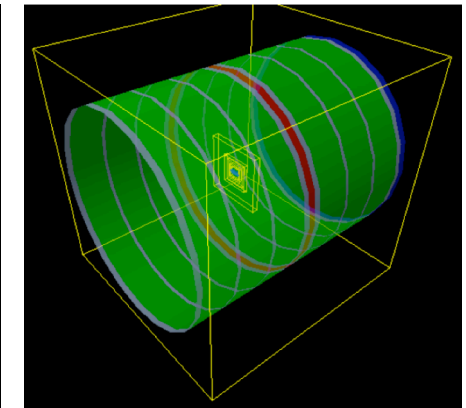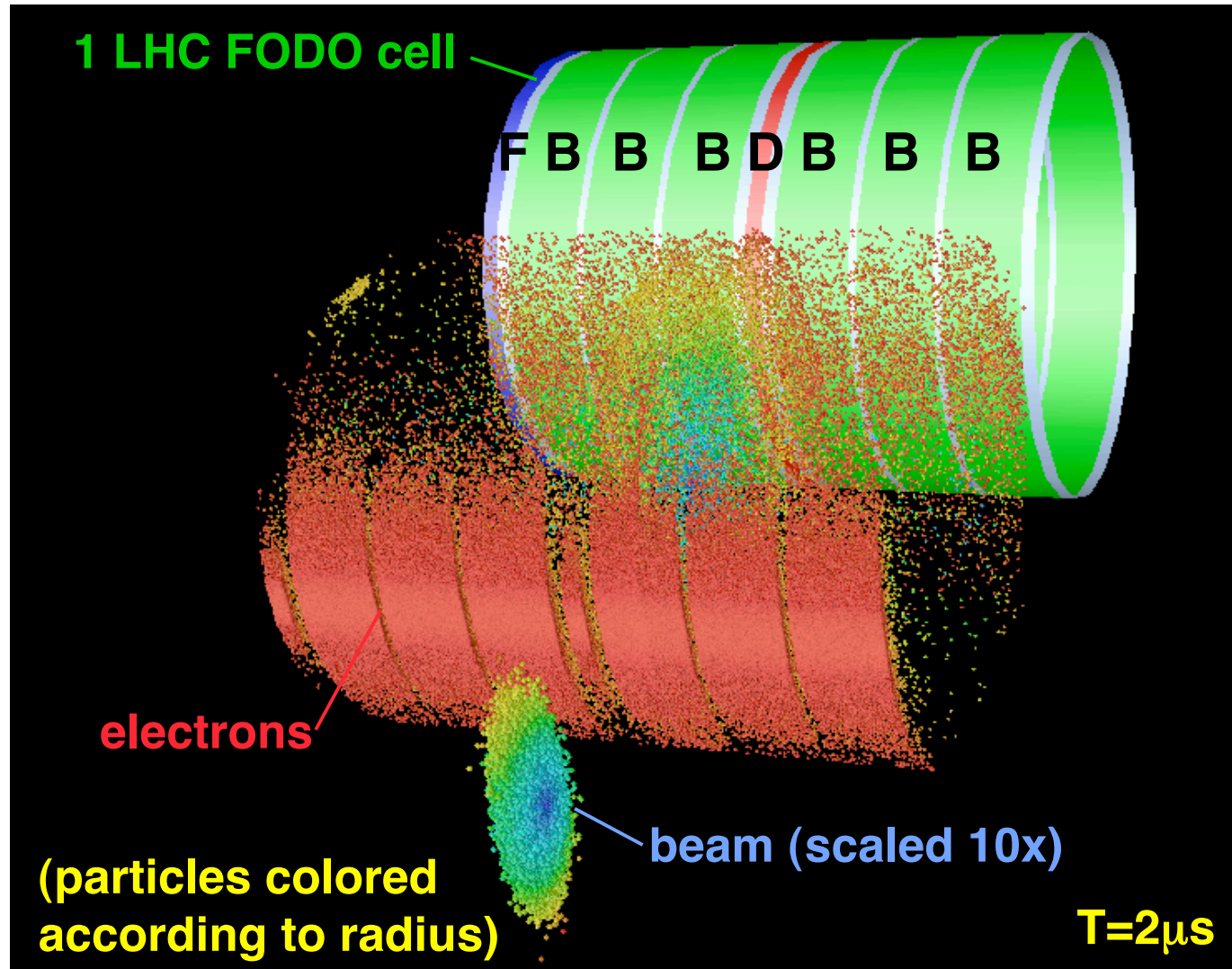
- AMR provides speedup of **x20,000** on field solve
- LHC pipe shape
- Histories of Nb electrons, power deposition, …